IN THE CLAIM

Please amend the claims as follows:

1. (original) Information carrier comprising:

- a mask layer (ML) defining a data pattern,
- a detection layer (DL) stacked on said mask layer (ML) and comprising at least one segment made of organic photosensitive material embedded between electrodes for detecting said data pattern.

2. (original) Information carrier as claimed in claim 1, wherein the data pattern is made of transparent and non-transparent elementary areas.

3. (currently amended) Information carrier as claimed in claim 1~~ or 2~~, wherein the at least one segment is sized such that it faces a plurality of said elementary areas.

4. (original) Information carrier comprising a layer (L1) comprising at least one segment, said at least one segment comprising active and passive elementary areas for defining a data pattern, said at least one segment being made of

organic photosensitive material embedded between electrodes for detecting said data pattern.

5. (original) Information carrier comprising a plurality of layers (L1, L2) stacked on top of each other, each layer comprising at least one segment, said at least one segment comprising active and passive elementary areas for defining a data pattern, said at least one segment being made of organic photosensitive material embedded between electrodes for detecting said data pattern.

6. (currently amended) Information carrier as claimed in claim 4 ~~or 5~~, wherein the passive elementary areas correspond to chemically modified areas of the organic photosensitive material, or to areas with only one electrode.

7. (currently amended) Information carrier as claimed in claim 1~~, 4 or 5~~, wherein the organic photosensitive material embedded between electrodes is composed of OLEDs, smOLEDs, PolyLED, LEECs, organic photovoltaic cells, or hybrid organic/inorganic solar Grätzel cells.

8. (original) Method of defining a data pattern in an information carrier comprising a detection layer, said data pattern deriving from a step of printing dark elementary areas on said detection layer.

9. (original) Method of defining a data pattern in an information carrier comprising a layer made of organic photosensitive material, said data pattern deriving from a step of modifying the properties of said material for creating passive elementary areas.

10. (original) Method of defining a data pattern in an information carrier comprising a layer made of organic photosensitive material embedded between electrodes, said data pattern deriving from a step of suppressing one of said electrodes for creating passive elementary areas.